

## REVISION: 03

[illegible]

STANDARD ENGINEERING TEXT

**ENGINEERING DATA LIST REMARKS**

**FURNISHED METHOD CODE LEGEND:**

**C - CLASSIFIED DOCUMENT.**

**S - FURNISHED WITH SOLICITATION.**

M - STABLE BASE DRAWING REQUIRED;

**X - DATA SUPPLIED (NOT IN EDCARS).**

R - FURNISHED BY PCD UPON REQUEST.

P - PARTIAL DOCUMENT FURNISHED.

V - VENDOR DRAWING;

G - GOV'T DOCUMENT.

O - OTHERS, CONTRACT

**MUST ACQUIRE.**

**A - DATA NOT**

REV:  OO-ALC	<b>ENGINEERING DATA REQUIREMENTS</b> (ATTACHMENT "A")	
NOTE: MILITARY SPECIFICATIONS I/STANDARDS WILL NOT BE FURNISHED IN THE BID SET.		
1. THE FOLLOWING INSTRUCTIONS ARE FURNISHED FOR THE MANUFACTURE OF <b>PISTON TUBE SHOCK STRUT (NOSE LANDING GEAR)</b> <span style="float: right;">A-10</span>		
2. PART NUMBER  18805-1	3. NATIONAL STOCK NUMBER  1620-01-012-1969	
4. THE FOLLOWING SPECIFICATIONS/STANDARDS, ETC., WILL BE USED IN LIEU OF THE DATA INDICATED. THE SUPERSEDED DATA WILL NOT BE FURNISHED UNLESS SO INDICATED.		
5. Use Material SAE AMS 6257 in lieu of MIL-S-8844 (CANCELLED).		
6. Grind per MIL-STD-866 and nital etch for burns per MIL-STD-867 in lieu of F-F101.		
7. Heat Treat per SAE AMS-H-6875 in lieu of MIL-H-6875.		
8. Shot Peen per SAE AMS-S-13165 in lieu of MIL-S-13165.		
9. Inspection requirements are as follows: <div style="margin-left: 40px;">           A. Perform Magnetic particle inspection per ASTM E1444 in lieu of MIL-I-6868. Use full wave direct current (FWDC), wet continuous method, fluorescent type with the following acceptance/rejection criteria: <b>NO DEFECTS ALLOWED</b>. The intent of <b>NO DEFECTS ALLOWED</b> is that the inspection is conducted at the required sensitivity level and there shall be no indications allowed. The inspector performing the inspection shall be certified to Level II with the inspection procedure developed by a Level III as specified in NAS-410.         </div>		
10. Chrome Plate per MIL-STD-1501 (Class 2, Type 1) in lieu of SAE AMS-QQ-C-320.		
11. Protect unplated surfaces, using temporary coatings as required to prevent damage or deterioration during handling, per MIL-C-16173 in lieu of R-Z901, CODE ZZ.		
12. Identification and Marking per MIL-STD-130 in lieu of Z-R701.		
13. Serialization of items shall be accomplished as follows: <div style="margin-left: 40px;">           A. "Serial number shall be vibropeened in 0.09" letters, .004 to .007" deep in the location indicated. If the drawing does not indicate a location, LILE will provide S/N location instructions. Serialization of item shall be accomplished as follows: The serialization will begin with the letters "S/N" followed by the CAGE of the contractor named on the contract, followed by a dash and the 2 digit year of manufacture, followed by a dash and a sequentially unique 3 digit number. A contractor who receives numerous intermittent contracts will start serialization of item with the next number in sequence of the prior contract. If a contract produces more than 999 items, the serial number should begin using 4 digit serial numbers. The serial number should appear like this: S/N 98747-02-001."         </div>		
14. After contract award the successful bidder shall provide a copy of the processing documentation (routing documents and process specifications) to LILE for final review before production begins.		
PREPARED BY  DAVID H. ARGYLE	SYMBOL  LGMPM	DATE  3 May 02

REV:	ENGINEERING DATA REQUIREMENTS CONTINUATION SHEET (ATTACHMENT "A")	
PART NUMBER 18805-1	NATIONAL STOCK NUMBER 1620-01-012-1969	
<p>15. OO-ALC/LILE system engineering retains all rights to review and accept MRB'S prior to shipment of discrepant items. All deviations, minor and major, from the engineering drawing package will be submitted for MRB disposition.</p> <p>16. Prior to contract award, the contractor will certify to the government in writing, full compliance with manuals, specifications, and standards called out and required for the manufacture of this contracted landing gear component/assembly. Contractor is responsible to completely search these manuals, specifications, and standards and fully understand the requirements necessary to manufacture landing gear components. Any questions can be forwarded to this office, OO-ALC/LILE.</p>		
PREPARED BY DAVID H. ARGYLE	SYMBOL LGMPM	DATE 3 May 02

**SOURCE QUALIFICATION REQUIREMENTS**  
(PL 98-525, SECTION 2319)

STOCK NR (NSN) 1620-01-012-1969  
NOUN: Piston tube

PART NUMBER (P/N) 18805-1  
AIRCRAFT: A-10 NLG

**SECTION C**

**QUALIFICATION REQUIREMENTS THAT MUST BE SATISFIED TO BECOME A QUALIFIED SOURCE**

1. Because of the need for uninterrupted item support to military aircraft systems and in keeping with the requirements of PL 98-525, the current acquisition need not and generally will not be delayed to provide an offerer an opportunity to qualify. Normal acquisition practices at OO-ALC should preclude the denial of opportunity to any interested offerer.
2. The offerer must provide a pre-contract award qualification article, which meets the requirements of the engineering drawings, material specifications, and process specifications. However, successful completion of the qualification testing does not guarantee any contract award. If the offeror is deemed qualified and awarded the contract, a post-contract award first article exhibit may be required to verify production capability.
3. The required materials will be procured from a qualified source and will meet the requirements of their respective specifications. The offerer will assure that the material supplier has accomplished this and will submit certified documentation of accomplishment of the above requirements to the purchaser along with the pre-contract award qualification article.
4. The qualification article shall demonstrate full compatibility and comparability with existing parts, and once submitted, will be subjected to such testing as deemed necessary by the government, to insure the article meets all dimensional, processing, and functional requirements. Such testing may result in the destruction of the article. Following completion of necessary testing and evaluation, the article, no matter what its condition, shall be returned to the contractor or disposed of at his discretion and direction, whether it was found acceptable or not.
5. Form verification: The Government's Quality Verification Center will verify compliance with dimensional data requirements. Material and process compliance will also be verified as required.
6. Fit/function verification: Existing components and Government test stands/fixtures will be utilized to verify physical interface and functional performance of articles.
7. Testing for material and process compliance
  - (a) Material analysis
  - (b) Heat treat
  - (c) Grinding
  - (d) Plating
  - (e) Finish
  - (f) Other
8. Remarks:
  - a. Organic verification capabilities exist at OO-ALC.
  - b. Test requirements outside organic capabilities will be contracted out to independent laboratories.
9. The estimated cost of government testing and evaluation is \$2000
10. Maximum time for testing of the qualification article will not exceed 30 days from receipt at testing agency.

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INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

- Item A. Self-explanatory.
- Item B. Self-explanatory.
- Item C. Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as 'Provisioning', 'Configuration Management', etc.
- Item D. Enter name of system/item being acquired that data will
- Item E. Self-explanatory (to be filled in after contract award).
- Item F. Self-explanatory (to be filled in after contract award).
- Item G. Signature of preparer.
- Item H. Date CDRL was prepared.
- Item I. Signature of CDRL approval authority.
- Item J. Date CDRL was approved.
- Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.
- Item 2. Enter title as it appears on data acquisition document cited in Item 4.
- Item 3. Enter subtitle of data item for further definition of data item (optional entry).
- Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.
- Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g. Statement of Work paragraph number).
- Item 6. Enter technical office responsible for ensuring adequacy of the data item.
- Item 7. Specify requirement for inspection/acceptance of the data item by the Government.
- Item 8. Specify requirement for approval of a draft before preparation of the final data item.
- Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref DoDD 5230.24).
- Item 10. Specify number of times data items are to be delivered.
- Item 11. Specify as-of date of data item, when applicable.
- Item 12. Specify when first submittal is required.
- Item 13. Specify when subsequent submittals are required, when applicable.
- Item 14. Enter addresses and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.
- Item 15. Enter total number of draft/final copies to be delivered.
- Item 16. Use for additional/clarifying information for items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14; Desired medium for delivery of the data item.

FOR THE CONTRACTOR

- Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.
  - a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing and administration) but which is required by DD Form 1423.
  - Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.
  - b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.
  - Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.
  - c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.
  - Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.
  - d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.
  - Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.
- Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use data shall be governed by the pertinent provisions of the contract.